

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference BGM 27 - WO	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2004/052760	International filing date (day/month/year) 02/11/2004	(Earliest) Priority Date (day/month/year) 03/11/2003
Applicant BIOGEMMA		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☒ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,



the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. _____



as suggested by the applicant.



as selected by this Authority, because the applicant failed to suggest a figure.



as selected by this Authority, because this figure better characterizes the invention.

- b. ☒ none of the figures is to be published with the abstract.

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International application No.

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
 - a. type of material
 - ☒ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material
 - ☒ in written format
 - ☒ in computer readable form
 - c. time of filing/furnishing
 - ☒ contained in the international application as filed
 - ☐ filed together with the international application in computer readable form
 - ☒ furnished subsequently to this Authority for the purpose of search
2. ☒ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

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International Application No
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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/29 C12N15/82 C12N5/10 C07K14/415 A01H5/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, Sequence Search

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE EMBL 'Online! 25 August 2003 (2003-08-25), WHITELAW C. ET AL.: XP002275617 retrieved from EBI Database accession no. CG044206 88-99% identity to SEQ ID NO: 1-3 partially abstract	1, 3
X	----- DATABASE EMBL 'Online! 19 March 2003 (2003-03-19), WHITELAW C. ET AL.: XP002275618 retrieved from EBI Database accession no. BZ785501 100% identity to SEQ ID NO:5 over 282 bp abstract ----- -/--	17-19, 21, 22

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

23 February 2005

Date of mailing of the international search report

07/03/2005

Name and mailing address of the ISA

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International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE EMBL 'Online! 18 July 2003 (2003-07-18), GENOPLANTE: XP002275619 retrieved from EBI Database accession no. CF006083 99% identity to SEQ ID NO:7 over 373 bp abstract</p>	17-19, 21,22
X	<p>----- DATABASE EMBL 'Online! 18 July 2003 (2003-07-18), GENOPLANTE: XP002275620 retrieved from EBI Database accession no. CF006331 95% identity to SEQ ID NO:9 over 405 bp abstract</p>	17-19, 21,22
X	<p>----- DATABASE EMBL 'Online! 18 July 2003 (2003-07-18), GENOPLANTE: XP002275621 retrieved from EBI Database accession no. CF006827 99% identity to SEQ ID NO:11 over 337 bp abstract</p>	17-19, 21,22
X	<p>----- DATABASE EMBL 'Online! 6 October 1999 (1999-10-06), WALBOT V.: XP002275622 retrieved from EBI Database accession no. AW062022 almost 100% identity to SEQ ID NO:13 over 592 bp abstract</p>	17-19, 21,22
X	<p>----- DATABASE EMBL 'Online! 28 February 2001 (2001-02-28), SINGH J. ET AL.: XP002275623 retrieved from EBI Database accession no. BG320929 almost 99% identity to SEQ ID NO:15 over 701 bp abstract</p>	17-19, 21,22
A	<p>----- WO 99/50427 A (YAN GUO ; MAX PLACK GES ZUR FOERDERUNG D (DE); SALAMINI FRANCESCO (DE)) 7 October 1999 (1999-10-07)</p>	
A	<p>----- WO 02/36788 A (AGRONOMIQUE INST NAT RECH ; PEREZ PASCUAL (FR); ROGOWSKY PETER (FR); C) 10 May 2002 (2002-05-10)</p> <p>----- -/--</p>	

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 03/078580 A (DANILEVSKAYA OLGA ; PIONEER HI BRED INT (US); HERMON PEDRO (US)) 25 September 2003 (2003-09-25) -----	
A	DATABASE EMBL 'Online! 6 February 2003 (2003-02-06), WHITELAW C. ET AL.: XP002318846 retrieved from EBI Database accession no. BZ671532 shows 100 % identity to 180 nt of SEQ ID NO:62 abstract -----	
P,X	GUTIERREZ-MARCOS JOSE F ET AL: "maternally expressed gene1 is a novel maize endosperm transfer cell-specific gene with a maternal parent-of-origin pattern of expression" PLANT CELL, vol. 16, no. 5, May 2004 (2004-05), pages 1288-1301, XP002318845 ISSN: 1040-4651 the whole document -----	1-14, 17-27

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Information on patent family members

International Application No
PCT/EP2004/052760

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9950427	A	07-10-1999	AU 3600299 A WO 9950427 A2 EP 1066394 A2 US 2004003427 A1	18-10-1999 07-10-1999 10-01-2001 01-01-2004
WO 0236788	A	10-05-2002	FR 2818286 A1 AU 2303802 A WO 0236788 A2	21-06-2002 15-05-2002 10-05-2002
WO 03078580	A	25-09-2003	AU 2003230634 A1 WO 03078580 A2 US 2003177547 A1	29-09-2003 25-09-2003 18-09-2003